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Vol. 4, No. 4

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OFFICIAL JOURNAL OF THE PLANT VARIETY PROTECTION OFFICE



PREFACE

The Plant Variety Protection Act, (7 U.S.C. 2321 et. seq.) authorizes the Secretary of Agriculture to publish an Official Journal and to provide the public with pertinent information relating to the operations of the Plant Variety Protection Office.

The statute also authorizes the Secretary to disseminate technological and other information available to the Office that would encourage innovation and promote progress in plant breeding.

The Official Journal, which is published quarterly, includes instructions issued by the Office and related information. It will be sent free to anyone on request. Send requests to:

Plant Variety Protection Office Grain & Seed Division, AMS U.S. Department of Agriculture Room 301, National Agricultural Library Beltsville, Maryland 20705

This issue covers the period from October 1, 1976, through December 31, 1976.

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APPLICATIONS RECEIVED

Mestern Plant Breeders Western Plant Breeders Western Plant Breeders Western Plant Breeders L. D. Maffei Seed Company, Inc. lima bean Asgrow Seed Company Northrup, King and Company Asgrow Seed Company Asgrow See	Application No.	Date	Name of applicant(s)	Name of kind	Name of variety (or designation)
10/22/76 Western Plant Breeders barley 10/22/76 Western Plant Breeders barley 10/29/76 L. D. Maffei Seed Company, Inc. lima bean 10/29/76 Asgrow Seed Company 10/29/76 Asgrow Seed Company 11/5/76 Asgrow Seed Company 11/5/76 Asgrow Seed Company 11/5/76 Asgrow Seed Company 11/2/76 Asgrow Seed Company 11/26/76 Soil Fertility Dunns Ltd. 11/20/76 G and P Seed Company, Inc. 12/20/76 G and P Seed Company, Inc. 12/20/76 G bermission to publish not rec'd.) Seaflower 12/20/76 Asgrow Seed Company, Inc.	000T	10/4//6	Keza kavianian Pioneer Hi-Bred International Inc	muskmelon	kavameton 118-11
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12/28/76 Pure Line Seeds, Inc. pea 12/28/76 Pure Line Seeds, Inc. pea	00021	12/27/76	(Permission to publish not rec'd.)	safflower	S-317
12/28/76 Pure Line Seeds, Inc. pea	00022	12/28/76	Pure Line Seeds, Inc.	pea	Freezer 47
	00023	12/28/76	Pure Line Seeds, Inc.	pea	Freezer 50

 $[\]overline{\text{To be sold}}$ by variety name only as a class of certified seed. No. of generations of certified seed permitted beyond breeder's seed.

Certificate	Issue Date	Owner	Name of Kind	Name Of Wariotti
			District To Company	Name of Variation
**7100110	Oct. 27, 1976	R. J. Reynolds Tobacco Co.	peanut	'Avoca-11'(3)
'Avoca-11' is	most similar to	'NC-2' except 'Avoca-11' matures 7	7-10 days later	•
**7200022	Oct. 27, 1976	Coker's Pedigreed Seed Co.	tobacco	'Coker 347' (2)
'Coker 347' muroot knot nema	ost closely resematode; whereas, '	'Coker 347' most closely resembles 'Coker 319' and 'Coker 411' but 'Coker root knot nematode; whereas, 'Coker 319' and 'Coker 411' are susceptible.		347' is resistant to
**7200023	Oct. 27, 1976	Coker's Pedigreed Seed Co.	tobacco	'Coker 411' (2)
Coker 411' m shank; wherea: whereas, 'Cok	'Coker 411' most closely resembles shank; whereas, 'Coker 319' is sus whereas, 'Coker 347' is resistant	'Coker 411' most closely resembles 'Coker 319' and 'Coker 347.' 'Coker 411' is resistant to black shank; whereas, 'Coker 319' is susceptible. 'Coker 411' is susceptible to root-knot nematode; whereas, 'Coker 347' is resistant.	'Coker 411' is	resistant to black t-knot nematode;
**7200136	Oct. 27, 1976	Wisconsin Agricultural Experiment Station	oat	'Dal' (3)
'Dal' most clo light and have hairs. 'Dal'	osely resembles 's few basal hairs is also taller w	'Dal' most closely resembles 'Goodland,' but the seeds of 'Dal' are nonfluorescent under U.V. light and have few basal hairs; whereas, the seeds of 'Goodland' are fluorescent and have no basal hairs. 'Dal' is also taller with more resistance to crown rust and barley yellow dwarf virus.	are nonfluoreso are fluorescen and barley yel	cent under U.V. nt and have no basal low dwarf virus.
**7500004	Oct. 27, 1976	Wisconsin Agricultural Experiment Station	oat	'Goodland' (3)
'Goodland' most closely re fluorescent under U.V. lig fluorescent. 'Goodland' i barley yellow dwarf virus.	st closely resemb nder U.V. light; 'Goodland' is al dwarf virus.	'Goodland' most closely resembles 'Dal' but the seeds of 'Goodland' lack basal hairs and are fluorescent under U.V. light; whereas, the seeds of 'Dal' have few basal hairs and are non-fluorescent. 'Goodland' is also shorter, with shorter, narrow panicles and less resistance to barley yellow dwarf virus.	ind' lack basal ew basal hairs anicles and le	hairs and are and are non- ss resistance to
**7500062 'Early Bunch' the angle of 'NC-FLA 14.' (99 vs. 94). ** To be so () No. of gq	oct. 27, 1976 is a Virginia bu the branches and 'Early Bunch dif	**7500062 Oct. 27, 1976 Florida Foundation Seed peanut 'Early Bunch' (4) "Early Bunch' is a Virginia bunch type, most similar to 'NC-FLA 14' and 'NC-5,' but differs in that the angle of the branches and shelling percent (74 vs. 70) is greater in 'Early Bunch' than in (99 vs. 94). ** To be sold by variety name only as a class of certified seed. () No. of generations of certified seed permitted beyond breeder's seed.	peanut 14' and 'NC-5, eater in 'Early ie value is gred id. er's seed.	'Early Bunch' (4) ' but differs in that y Bunch' than in ater in 'Early Bunch'

Name of Kind Name of Variety	Coker's Pedigreed Seed Co. tobacco 'Coker 86' (2)	'Coker 86,' 'Va 770,' 'SC 71' and 'SC 72' are the only flue-cured tobacco varieties that exhibit resistance to tobacco mosaic virus. 'Coker 86' has high resistance to black shank and fusarium wilt; whereas, 'Va 770' is susceptible. 'Coker 86' is resistant to root-knot nematodes but 'SC 71' is susceptible. 'Coker 86' is 2 days later in maturity (65 vs. 63) and is 7.62 cm taller (104.14 vs. 96.52) than 'SC 72.'	Idaho Seed Bean Company bean 'Grand Canyon'	'Grand Canyon' most closely resembles 'Canyon' but 'Grand Canyon'reaches processing maturity 2 days earlier than 'Canyon,' 'Grand Canyon' averages approximately 6 cm shorter in height than 'Canyon,' and the pod spur of 'Grand Canyon' is approximately 3 mm longer than 'Canyon.'	Wisconsin Agricultural oat 'Wright' (3) Experiment Station	'Wright' most closely resembles 'Beedee' but 'Wright differs from 'Beedee' by having 6 cm greater height, less lodging, and more resistance to both crown rust and the "Lodi" race of loose smut.	Coker's Pedigreed Seed Company soybean 'Coker 338' (3)	'Coker 338' has the novel combination of white flowers, tawny pubescence, brown pod, and resistance to bacterial pustule.	Research Corporation barley 'Wapana' (3)	'Wapana' is most similar to 'Compana' but 'Wapana' has a waxy endosperm and 'Compana' does not.	Ardie G. Gustafson pea 'Conner' (3)	Conner' most closely resembles 'Valley Perfection' except that 'Conner' is 20 cm shorter, is resistant to fusarium wilt race 5 and tolerant to top yellows. 'Valley Perfection' is susceptible to these diseases. ** To be sold by variety name only as a class of certified seed.
Owner	Coker's	and 'SC 7 irus. 'C ceptible. 2 days 1	Idaho Se	sembles 'Canyon' a yon' is a	Wisconsi Experi	s 'Beedee resistan	Coker's	ination o	Research	ompana' b	Ardie G.	s 'Valley'se 5 and to
Issue Date	Oct. 27, 1976	70,''SC 71' acco mosaic v a 770' is sus 'Coker 86' is	oct. 27, 1976	st closely re /on,''Grand of'Grand Can	Oct. 27, 1976	sely resemble ing, and more	Oct. 29, 1976	ne novel comb ile.	Oct. 29, 1976	similar to 'C	Oct. 29, 1976	'Conner' most closely resembles resistant to fusarium wilt race to these diseases. ** To be sold by variety name
	Oct	to tobs eas, 'Ve ible.'	Oct	yon' mostan 'Cany' d spur c	Oct	ost closess lodgi	Oct	al pust	Oct	s most s	Oct	to fusar liseases
Certificate No.	**7600004	'Coker 86,' 'Va 770,' 'Scresistance to tobacco mos wilt; whereas, 'Va 770' is susceptible. 'Coker vs. 96.52) than 'SC 72.'	7600012	'Grand Can earlier th and the po	**7600036	'Wright' m height, le	**7400058	'Coker 338' has the propertial pustule	**7500023	'Wapana' i	**7500039	'Conner' most close resistant to fusar: to these diseases.

Certificate No.	Issue Date	Owner	Name of Kind	Name of Variety
7500074	Oct. 29, 1976	Asgrow Seed Company	pea	'Deli'
'Deli' is the double podded	'Deli' is the Alsweet type. 'Deli' dis double podded instead of single podded	'Deli' is the Alsweet type. 'Deli' differs from other varieties of the "Alsweet" type by being double podded instead of single podded.	es of the "Alswe	et" type by being
7500075	Oct. 29, 1976	Asgrow Seed Company	реа	'Rally'
'Rally' most	closely resembles	Rally' most closely resembles 'Dart' but 'Rally' seed weigh 31 gm. less per 1,000 seed than 'Dart.'	l gm. less per l	,000 seed than
**7500084	Oct. 29, 1976	Pioneer Hi-Bred International, Inc.	cotton	'Lockett 77' (3)
Lockett 77' blight races wilt; whereas	is most similar t 1, 2, 7, and 10, 'Lockett 4789A'	'Lockett 77' is most similar to 'Lockett 4789A,' except 'Lockett 77' is resistant to bacterial blight races 1, 2, 7, and 10, and the fusarium wilt-nematode complex, and tolerant to verticillium wilt; whereas, 'Lockett 4789A' is susceptible to all of these diseases.	tt 77' is resist omplex, and tole diseases.	cant to bacterial srant to verticillium
7500090	Oct. 29, 1976	Canners Seed Corporation	pea	#8617 Early Perfection
#8617 Early Perfection' i	Perfection' most s resistant to po	'#8617 Early Perfection' most closely resembles '#3040 Early Perfection' but '#8617 Early Perfection' is resistant to powdery mildew while '#3040 Early Perfection' is susceptible.	#3040 Early Perfection' but '	'#8617 Early susceptible.
7600003	Oct. 29, 1976	Quali-Sel, Inc.	lettuce	'Domingos 43'
'Domingos 43' dimensions: C47.1 cm vs. 4	'Domingos 43' most closely resembles dimensions: core height - 4.7 cm vs. 47.1 cm vs. 44.3 cm, head diameter -	'Domingos 43' most closely resembles 'Vanguard' but differs by being larger in the following dimensions: core height - 4.7 cm vs. 2.8 cm, core diameter - 3.8 cm vs. 3.3 cm, frame diameter 47.1 cm vs. 44.3 cm, head diameter - 14.4 cm vs. 12.5 cm.	being larger in .8 cm vs. 3.3 cm	the following , frame diameter -
7600013	oct. 29, 1976	Canners Seed Corporation	pea	'#7025 Early Sweet'
'#7025 Early resistance to	Sweet' most close root rot; wherea	'#7025 Early Sweet' most closely resembles 'Albred' but differs by having straight internodes and resistance to root rot; whereas, 'Albred' has zigzag internodes and is susceptible to root rot.	s by having stra s and is suscept	iight internodes and ible to root rot.

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	Certificate No.	Issue Date	Owner	Name of Kind Name of Variety	sty
	**7600046	Oct. 29, 1976	Seed Research Associates, Inc.	wheat '5411' (3)	
	'5411' is most 'Plainsman V.'	similar to 'Pla	'5411' is most similar to 'Plainsman V.' '5411' is one day later blooming and 7 cm taller than 'Plainsman V.'	er blooming and 7 cm taller th	ıan
	**7600065	Oct. 29, 1976	Pioneer Hi-Bred International, Inc.	wheat 'S76' (3)	
	'S76' most clos	sely resembles '	'S76' most closely resembles 'Hart.' 'S76' differs from 'Hart' by having a white coleoptile and being susceptible to loose smut. 'Hart' has a purple coleoptile and is resistant to loose smut.	by having a white coleoptile le and is resistant to loose s	and smut.
	**7200103	Nov. 18, 1976	Purdue University Agricultural Experiment Station & ARS, USDA	barley 'Paoli' (3)	
8	'Paoli' is most later in flower is susceptible snakey.	t like 'Pike' ir ring. 'Paoli' i to both disease	'Paoli' is most like 'Pike' in most characters. 'Paoli' is distinct from 'Pike' in being 4 days later in flowering. 'Paoli' is resistant to rhyncosporium scald and to loose smut; whereas, 'Pike' is susceptible to both diseases. The neck of 'Paoli' is straight; whereas, that of 'Pike' is snakey.	stinct from 'Pike' in being 4 d Id and to loose smut; whereas, ght; whereas, that of 'Pike' is	days 'Pike'
	**7300059	Nov. 18, 1976	Mississippi Agricultural & Forestry Experiment Station	cowpea 'Mississippi Purple'	(3)
	'Mississippi Pu which are reddi 'Mississippi Si dry. The stem 'Mississippi Si	'Mississippi Purple' is most si which are reddish-purple at gre 'Mississippi Silver' are silver dry. The stem and nodes of 'Mi 'Mississippi Silver' are green.	'Mississippi Purple' is most similar to 'Mississippi Silver' except 'Mississippi Purple' has powhich are reddish-purple at green maturity stage and dark purple when dry. The pods of 'Mississippi Silver' are silver splashed with rose at green maturity stage and straw color when dry. The stem and nodes of 'Mississippi Purple' are purple mixed with green; whereas, those of 'Mississippi Silver' are green.	xcept 'Mississippi Purple' has le when dry. The pods of turity stage and straw color wh xed with green; whereas, those	s pods when
	7500009	Nov. 18, 1976	International Seeds, Inc.	perennial 'Derby'	
	'Derby' most c. has darker gree than 'Manhattar	losely resembles en color and mon	'Derby' most closely resembles the cultivar 'Pennfine' and to a lesser extent 'Manhattan.' 'Derby' has darker green color and more cold tolerance than 'Pennfine.' 'Derby' produces a less dense turfthan 'Manhattan' and 'Pennfine.' 'Derby' is 17 days earlier than 'Manhattan.'	a lesser extent 'Manhattan.'' ''Derby' produces a less den han 'Manhattan.'	Derby' ise turf
	** To be sold	Î by variety nam	To be sold by variety name only as a class of certified seed.	eed.	

^() No. of generations of certified seed permitted beyond breeder's seed.

Certificate

No.	Issue Date	Owner	Name of Kind	Name of Variety
**7600002	Nov. 18, 1976	Purdue University Agricultural Experiment Station & ARS, USDA	barley	'Pike' (3)
'Pike' is mo 'Pike' has a whereas, 'Pa	st similar to 'Pao moderately snakey oli' has a straigh	'Pike' is most similar to 'Paoli' except that 'Pike' averages 4 days earlier in heading than 'Paoli' 'Pike' has a moderately snakey neck, and is susceptible to rhyncosporium scald and loose smut; whereas, 'Paoli' has a straight neck and is resistant to scald and loose smut.	4 days earlier incosporium scald and loose smut.	n heading than 'Paoli' and loose smut;
7600034	Nov. 18, 1976	Denholm Seeds	marigold	'Yellow Boy'
'Yellow Boy' flower heads	is most similar t average 9.5 mm la	'Yellow Boy' is most similar to 'Petite Yellow.' 'Yellow Boy' will bloom 3-4 days earlier and its flower heads average 9.5 mm larger in diameter than 'Petite Yellow.'	will bloom 3-4 llow.'	days earlier and its
7600035	Nov. 18, 1976	Denholm Seeds	marigold	'Goldfinch'
Goldfinch' Sunshine.' 'Honeymoon'	is larger flowered t Under most condition and 'Gypsy Sunshine.	is larger flowered than the nearest comparison varieties 'Honeymoon' and 'Gypsy Under most conditions the blooms will be 57 mm in diameter compared to 44 mm for and 'Gypsy Sunshine.'	ieties 'Honeymoo diameter compare	n' and 'Gypsy d to 44 mm for
7600063	Nov. 18, 1976	Nov. 18, 1976 Asgrow Seed Company	soybean	'A3001'
'A3001' is m white flower whereas, 'Ca	ost similar to 'Was. 'A3001' seedli lland' seedlings h	'A3001' is most similar to 'Wayne' and 'Calland.' 'A3001' has purple flowers; whereas, 'Wayne' h. white flowers. 'A3001' seedlings are characterized by short hypocotyls when germinated at 25° C; whereas, 'Calland' seedlings have long hypocotyls.	purple flowers; ypocotyls when g	'A3001' has purple flowers; whereas, 'Wayne' has d by short hypocotyls when germinated at 25° C;
7600067	Nov. 18, 1976	Nov. 18, 1976 Asgrow Seed Company	bean	'Cape'
'Cape' most Gallatin' is **7300092	closely resembles susceptible. 'Cap Dec. 20, 1976	'Cape' most closely resembles 'Early Gallatin' but 'Cape' is resistant to curly top and 'Early Gallatin' is susceptible. 'Cape' has longer pods (14.3-15.1 cm vs. 13-13.3 cm)than 'Early Gallatin.' **7300092 Dec. 20, 1976 Oklahoma Agricultural cotton 'Thorpe' (3)	esistant to curl vs. 13-13.3 cm) cotton	y top and 'Early than 'Early Gallatin.' 'Thorpe' (3)

9

percent first harvest) than 'Paymaster 909.'

0.98 inches) with a 0.6 unit lower micronaire (4.2 vs. 4.8) and an earlier maturity (16.9% greater 'Thorpe' is most similar to 'Paymaster 909' but 'Thorpe' has a 3/32 inch longer fiber (1.07 vs.

 $[\]overline{\text{To be sold}}$ by variety name only as a class of certified seed. No. of generations of certified seed permitted beyond breeder's seed.

	ind Name of Variety	'Lud' (3)	ng stiffer straw and has a mixed reaction to
	Name of Kind	barley	ıyr' by havi .e 'Zephyr'
	Dwner	Dec. 20, 1976 North American Plant Breeders	'Lud' is most similar to 'Zephyr' but 'Lud' differs from 'Zephyr' by having stiffer straw and waxier stems and heads. 'Lud' is 100% susceptible to DDT while 'Zephyr' has a mixed reaction to DDT40 to 60% of the plants are resistant.
	Issue Date Ov	Dec. 20, 1976 No	'Lud' is most similar to 'Zephyr' but 'Lud' waxier stems and heads. 'Lud' is 100% susc. DDT40 to 60% of the plants are resistant.
Certificate	No.	**7500001	'Lud' is most waxier stems a

(3)	
'Citation' (3)	nfine' in that
perennial ryegrass	differs from 'Pen' Pen' Pennfine.'
	'Citation' color than
Dec. 20, 1976 Turf-Seed, Inc.	Citation' most closely resembles 'Pennfine.' 'Citation' differs from 'Pennfine' in that Citation' has significantly darker green turf color than 'Pennfine.'
**7500003 Dec	'Citation' most c'Citation' has sign

E.		a)	
1' is most similar to 'Compana' except 'Washonupana' is hulless, has short awns and	'Washonupana' also differs from	" in that 'Washonupana' has a waxy endosperm and its starch retains an attached enzyme	
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pt '	n.	sper	erea
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is m	and	chat	sta
ana'	more	in t	t the
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Wash	produces more and smaller kernels per spike than 'Compana.'	Compana	throughout the starch manufacturing process; whereas,
_	1		+

'Washonupana' (3)

barley

Research Corporation

Dec. 20, 1976

**7500061

'Classic II'	and is resistant to race eptible to race 1 of
soybean	has purple flowers flowers and is susc
7600041 Dec. 20, 1976 V. R. Seeds, Inc.	'Classic II' is most similar to 'Wayne.' 'Classic II' has purple flowers and is resistant to race 1 of phytophthora root rot; whereas, 'Wayne' has white flowers and is susceptible to race 1 of phytophthora root rot.

 $[\]overline{\text{To be sold}}$ by variety name only as a class of certified seed. No. of generations of certified seed permitted beyond breeder's seed.

řž		а	
Name of Kind Name of Variety	5210' (3)	hes shorter tha	'Summit' (3)
Name of Kind	wheat	earlier, 5.3 inc	barley
Owner	Dec. 20, 1976 Seed Research Associates, Inc. wheat	'5210' most closely resembles 'Eagle,' but '5210' is 2.6 days earlier, 5.3 inches shorter than 'Eagle' in Kansas.	Dec. 20, 1976 North American Plant Breeders barley
Certificate No. Issue Date	**7600045 Dec. 20, 1976	'5210' most closely resembles 'Eagle' in Kansas.	**7600075 Dec. 20, 1976

slightly curved neck; whereas, while 'Lud'has a snakey neck with a "crook" occurring about 1/2 inch below the collar. Glume length is about one-half of the lemma in 'Summit;' whereas, in 'Lud' the 'Summit' most closely resembles 'Lud' except 'Summit' has anthocyanin in the auricles of all nodes; whereas, in 'Lud' the anthocyanin occurs only in the auricle of the top node. 'Summit' has a glume is one-third the length of the lemma.

'W-444' is a hard red spring wheat most similar to 'Siete Cerros,' but 'W-444' is 8 to 10 days wheat Germain's, Inc. Dec. 20, 1976

CERTIFICATE AMENDMENTS

'Valencia McRan' (3) peanut Borden Peanut Company, Inc. July 19, 1976 **7300066

earlier than 'Siete Cerros.'

No. of generations of certified seed permitted beyond breeder's seed. To be sold by variety name only as a class of certified seed.

United States Department of Agriculture Agricultural Marketing Service Grain and Seed Division Plant Variety Protection Office, Rm. 301 National Agricultural Library Beltsville, Maryland 20705

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GENERAL INFORMATION

Regulations and Rules of Practice Amended

The regulations and rules of practice under the Plant Variety Protection Act were amended to be effective March 15, 1977.

The first of the four amendments provides an applicant who has filed for protection in a foreign country with additional time to file for U.S. protection. The time limit is extended from 4 to 5 years to align it with the 3-year period needed in other countries for "grow-out" tests, which are not used in this country under the PVPA system.

Another amendment requires that if an applicant wishes to revive an application abandoned because of failure to furnish required information, he must do so within 3 months after abandonment. The third amendment requires that two of three \$250 fees be paid when the application is filed, with a provision for a refund if the application is cancelled before search or examination work is started.

The final amendment requires that a seed sample of a minimum size be submitted at the time of application, rather than at a later date. Officials say that this will allow for earlier examination of the seed and will aid in their examination of the applicant's request for plant variety protection.

The amendments in their proposed form were first published in the Dec. 14 Federal Register with a comment period until Jan. 13. The Plant Variety Protection Office received three favorable comments, and no comment against the amendments.

New Division Name

You will note that the former "Grain Division" is now the "Grain and Seed Division." This was the result of passage of a new law by Congress creating the new Federal Grain Inspection Agency. The present Grain and Seed Division consists of the Plant Variety Protection Office, the Federal Seed Act, the National Seed Testing Standardization Laboratory, Grain Market News, Section 32 Purchases, Grain and Seed Marketing Orders, and Wheat Research and Promotion Activities. S. F. Rollin is Acting Director.